

AREF'YEVA, T.A. [Aref'ieva, T.O.]

Effect of cooling on the cardiac activity of certain vertebrates.
Fiziol. zhur. [Ukr.] 9 no.6:741-747 N-D '63. (MIRA 17:8)

1. Laboratoriya srovnitel'noy fiziologii Instituta fiziologii
im. A.A. Bogomol'tsa AN UkrSSR, Kiyev.

L 64804-65

ACCESSION NR: AF5007754

UR/0238 /65/011/001/0045/0051

AUTHOR: Aref'yeva, T. O. (Aref'yeva, T.A.)

TITLE: The effect of hypothermia on the conditioned reflexes of cold-blooded vertebrates

SOURCE: Fiziologichnyy zhurnal, v. 11, no. 1, 1963, 45-51

TOPIC TERMS: hypothermia, conditioned reflex, experiment animal, animal physiology

ABSTRACT: The aim of this research was to determine the intensity and duration of the disturbances of the conditioned reflex activity after sublethal cooling in fish (goldfish - Carassius auratus L.) and reptiles (mud turtles - Emys orbicularis L.). After cooling the fish to 0°C - +0.5°C and 0°C - +1°C and the turtles to 0°C - +1.5°C and 1°C - +3°C restoration of the conditioned reflexes occurred in two periods: the first is the incomplete restoration of conditioned reflexes (the quantity of positive responses in experiments, the latent period of the conditioned reflexes are prolonged, differentiation is undisturbed), and the second is the complete restoration of the conditioned reflexes (positive responses are obtained to

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all conditioned stimuli, the latent period of the conditioned reflexes fluctuates within normal limits). During the first period inhibition predominates in the central nervous system (its higher divisions) in fish and turtles. Normalization in the ratio of excitation and inhibition processes in cold-blooded vertebrates after sublethal hypothermia occurs during the second period. In fish, after cooling to the zone where the temperature varies from 0°C to +1°C the conditioned reflexes were completely restored after 20 minutes; after cooling to 0°C - +1.5°C, after 30-50 minutes. Orig. art has 4 tables.

ASSOCIATION: laboratoriya porivnyal'noyi fiziologichyi Instytutu fiziologichyi im. O.O. Bohomol'tsya Akademiyi nauk URSR, Kyiv (Laboratory of Comparative Physiology, Institute of Physiology, Academy of Sciences, Ukrainian SSR)

SUBMITTED: 085:p64

ENCL: 00

SUB CODE: LS, PTT

NO REF Sov: 006

OTHER: 000

*MSP
Card 2/2*

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000101930001-6

REF'YEVA, T.I.

HUBINSHEYN, A.L., professor; KIRILLOV, A.A., dotsent; REF'YEVA, T.I., assistent;
MAKSIMOV, S.N., inzhener.

Method of forecasting the deformation of loessa soil under hydrotechnical
structures. Gidr.i mel. 5 no.9:3-13 S '53.

(MIRA 6:9)
(Soil mechanics)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000101930001-6"

RUBINSHTEYN, A.L., professor, doktor tekhn.nauk; AREF'YEVA, T.I., kand.tekhn.
nauk; KIRILLOV, A.A., dotsent, kand.tekhn.nauk; FROLOV, N.N, inzh.

Problems in the design of hydraulic structures on loess soils.
Nauch.zap. MIVKH 20:262-281 '58.
(Loess) (Soil mechanics) (MIRA 13:6)

AREF'YEVA, T.I., kand.tekhn.nauk

The technique of determining the settling characteristics of loess
soild. Nauch. zap. MITVKH 23:20-29 '60. (MIRA 14:8)
(Loess) (Soil mechanics)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000101930001-6

~~AREF'EVA, T.P.~~, student 5 kursu; EMCHENKO, A.I., professor, naukoviy kerivnik.

Factors of space in the conditioned reflex activity of fish. Stud.
nauki.pratsi no.20:13-19 '56. (MLRA 9:12)
(Fishes) (Conditioned response)

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AREF'YEVA T. V.

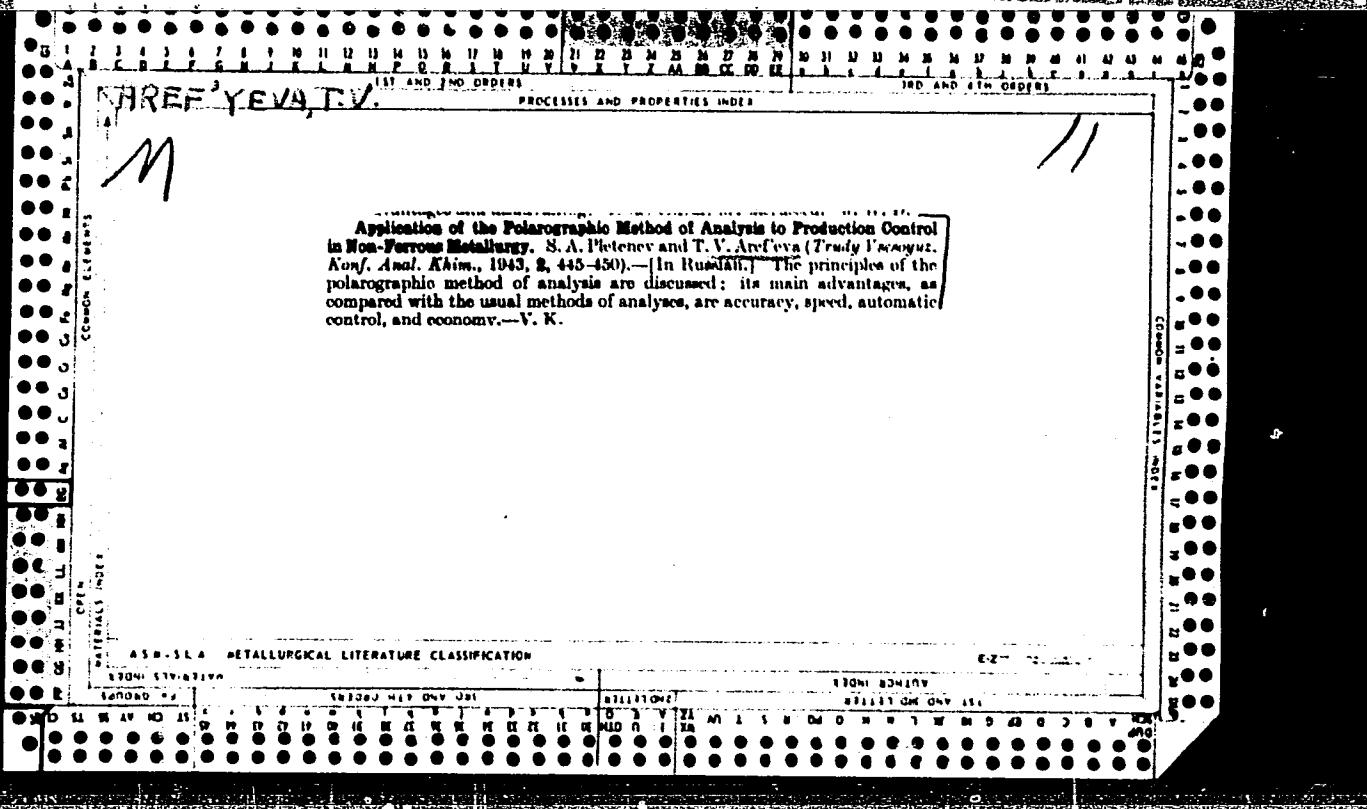
PROCESSES AND PROPERTIES INDEX

Polarographic determination of contaminating cadmium and copper in zinc sulfate electrolyte. S. A. Pleteney and T. V. Areleva. *Zarodskaya Lab.*, 7, 545-7 (1938).—Good results are reported in the determination of 2 mg./l. Cu and 8 mg./l. Cd in the presence of 3-60 mg./l. Pb^{++} in 1% ZnSO_4 by a polarographic method with a preliminary passage of H_2 through the solution for 15-20 min. C. B.

114-114 METALLURGICAL LITERATURE, CALIFORNIA

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CIA-RDP86-00513R000101930001-6"



<p><i>CHIREE YEVA, T.</i></p> <p>Determination of cadmium and copper in zinc sulfate solution by the polarographic method. S. A. Petronev and T. V. Andreeva. <i>Trudy Vsesoyuz. Kenzavodstvi Akad. Nauk</i>, 2, 431-5 (1943); cf. C.A. 36, 6049c.—Cd and Cu in $ZnSO_4$ soln. give in polarographic detail, well-defined diffusion waves. A current of H is passed through the soln. for 15-20 min. to prevent the interpretation of the diffusion wave of O on the wave of the metal under investigation. The deposition of Cu begins at a potential of approx. -0.20-0.3 v., and of Cd at approx. -1 v. In the presence of ions of both metals (Cu^{+2} and Cd^{+2}) in the soln. the polarographic curve has several breaks with well-defined diffusion waves of both metals. A method for the analysis of purified Zn electrolyte for Cu and Cd is given. Pass a current of H for 15-20 min. before the analysis through a sample soln. (10 ml.) in the vessel for polarographic analysis and compare the heights of the diffusion waves of Cd and Cu on the polarogram with those obtained in analyses of solns. containing known quantities of Cu and Cd. The height of the diffusion wave is measured by the method of Hohn (C.A. 31, 6180g) by extending the lines of all 3 parts of the curve representing the wave to their intersection (by pairs) and drawing lines parallel to the x axis through the points of intersection, the distance between the lines representing the height of the wave. Determ. of impurities (Cd, Pb, Cu) in electrolytic pig Zn is described. Dissolve the Zn sample (80 mg.) in a 750-ml. Erlenmeyer flask by heating in 180 ml. of concd. HCl, add 0.1-0.2 g. of $KClO_3$ (to dissolve Cu impurities in Zn), boil the soln. to remove all traces of Cl, cool, transfer to a 500-ml. flask, bring the vol. of the soln. to 500 ml., pass H through a portion of the soln. and make a polarographic analysis of the soln. The impurities in the HCl soln. are detd. by comparing the heights of the diffusion waves of each impurity with those of a standard HCl soln. The methods described are more accurate than those employed previously. 2 references.</p> <p style="text-align: right;">W. R. Henn</p>	<p>7</p> <p>3RD AND 4TH COLUMNS PROCESSES AND PROPERTIES INDEX</p> <p>4TH AND 5TH COLUMNS INDEXES</p>
<p>Common factors</p> <p>GENERAL NOTES</p>	<p>GENERAL NOTES</p>
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FREE YEVA, T.V.

PROCESSES AND PROPERTIES INDEX

Polarographic analysis of nickel ores, concentrates, and tailings after enrichment. S. A. Pietreny and T. V. Afrejeva. *Trudy Vsesoyuz. Konferentsii Anal. Khim.*, 2, 487-491 (1943).—Treat 1 g. of sample with 18 ml. concd. HCl + 5 ml. concd. HNO_3 . Boil, and lume after adding 18 ml. of 18% H_2SO_4 . Dissolve in water and dil. to a definite vol., after making ammoniacal to ppt. $Fe(OH)_3$. Filter and take a 5-ml. aliquot. Add to it 10 ml. of a soln. prep'd. from 100 ml. concd. NH_4OH + 20 g. NH_4Cl and water to make one l. Add 6 drops of 1% glue soln. From this soln. Co deposits under polarographic analysis at 0.4-0.45 v. and Ni at 1.0-1.15 v. Satisfactory results were obtained for Ni, but tests to det. Co by several methods were unsatisfactory. 8 references. W. R. Henn

450-16A METALLURGICAL LITERATURE CLASSIFICATION

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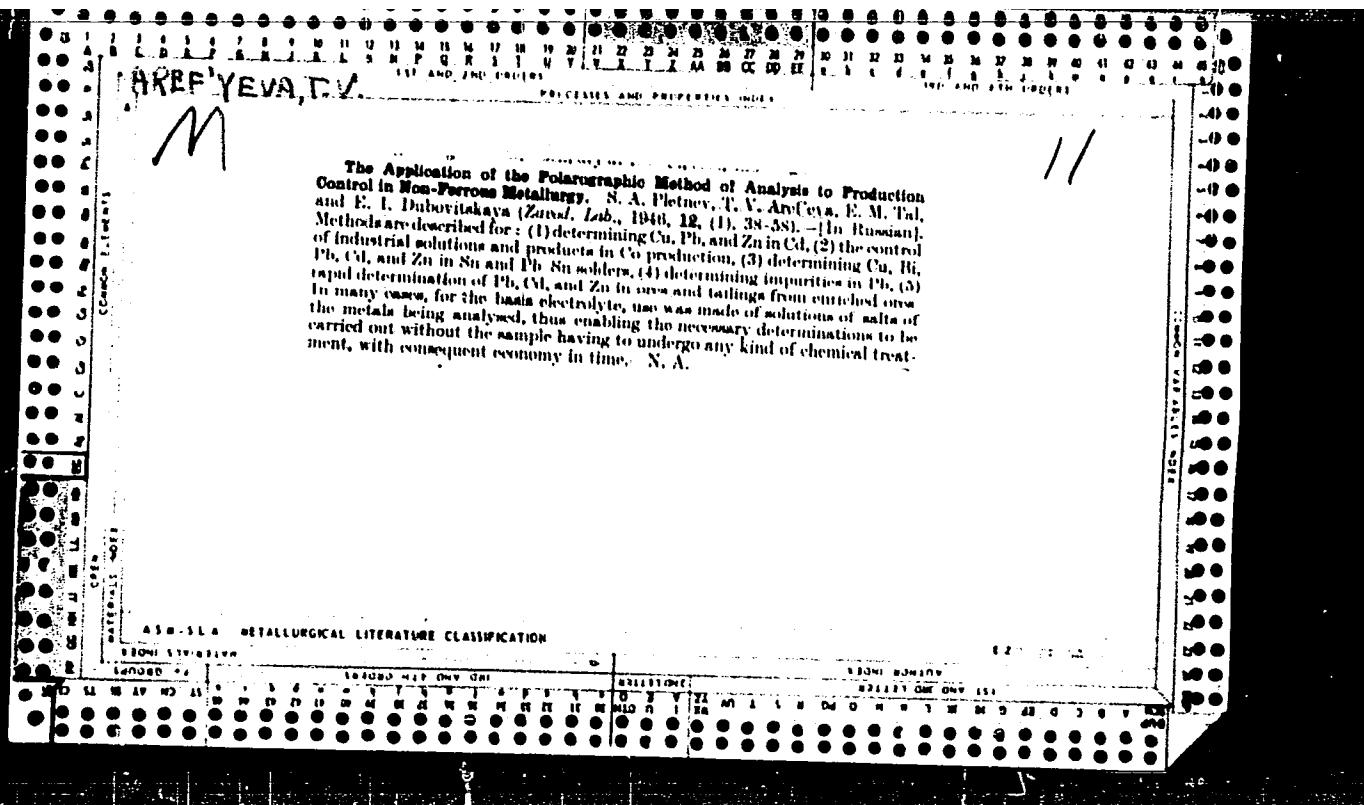
AREF'YEVA, F.V.

CA

Determination of copper and zinc in flotation tailings by polarographic analysis. T. V. Arf'eva. *Trudy Vsesoyuz. Konferentsii Anal. Khim.*, 7, 403-6 (1943).—Treat 1 g. of sample with 20 ml. of aqua regia. To the soln. add 10 ml. of 18% H_2SO_4 and evap. to fumes. Cool, add 60 ml. of water, and heat to boiling. Add NH_4OH in excess to ppt. $Fe(OH)_3$, filter, dissolve the ppt. in HCl , and treat with NH_4OH again. Transfer both filtrates to a 250-ml. flask, add 5 g. NH_4Cl and water up to the mark. Pass H_2 through a small aliquot part of the soln., add a little Na_2SO_3 and 5 drops of 1% glue soln., and exam. polarographically. 8 references. W. R. Henn.

W. R. Henn

7



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AREF'EVA, T.P.

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L 21222-66 EWT(m)/EWP(t) IJP(c) JD
ACC NR: AP6003812

SOURCE CODE: UR/0181/66/003/001/0272/0274

AUTHORS: Aref'ev, I. M.; Bazhulin, P. A. (deceased); Gavrilova,
I. V.; Zheludev, I. S.

ORG: Physics Institute im. P. N. Lebedev AN SSSR, Moscow
(Fizicheskiy institut AN SSSR)

TITLE: Temperature dependence of the intensity of light scattering
in oriented single crystals of KH_2PO_4 and Rochelle salt

SOURCE: Fizika tverdogo tela, v. 3, no. 1, 1966, 272-274

TOPIC TAGS: ferroelectric crystal, phase transition, light scattering,
temperature dependence, light polarization, elastic modulus,
crystal lattice vibration, Curie point, paraelectricity, piezoelectric
property

ABSTRACT: The purpose of the measurement of the temperature dependence
was to check whether the ferroelectric phase transition in these
crystals is connected with instability of the crystal against optical
lattice vibrations. The experiment was made with a spectrometer

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(DFS-12) whose output was photoelectrically recorded. The illuminator and the sample-cooling system are described elsewhere (A. V. Rakov, Tr. FIAN v. 27, 111, 1964). The investigated crystals were transparent with cross sections 7.5 x 7.5 mm and lengths 20, 23, and 49 mm. The Rochelle-salt crystals measured 7.5 x 7.5 x 30 mm. The intensity of scattering was measured at the maximum of the Hg 4358 Å line under smooth variation of the temperature. The results were strongly dependent on the polarization, and in the case of one type of polarization the intensity of the scattered light had a variation similar to that of the reciprocal of the elastic constant. It is concluded on this basis that the scattering is produced by anomalous acoustic vibrations. In the case of Rochelle salt, the effect is less pronounced in KH_2PO_4 , and no increase in the scattering intensity is observed at the second Curie point. This indicates that the structure of the Rochelle salt crystal is different in the two paraelectric phases. No low-frequency Raman scattering spectrum was observed, and it is therefore deduced that the increase in the scattering intensity of the Curie point is connected with the anomalous behavior of the acoustic lattice vibrations. It is concluded on the

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basis of these results and earlier data by the authors (FTT v. 7, 2413, 1965) that the ferroelectric phase transition in both salts is due to the instability of the crystal against the acoustic and optical vibrations of the lattice, which are interrelated by the piezoeffect. The authors thank G. P. Motulevich and D. G. Sannikov for a useful discussion. Orig. art. has: 2 figures

SUB CODE: 20/ SUBM DATE: 02Aug65/ ORIG REF: 005/ OTH REF: 003

Card

3/3

AUTHOR:

Pomerantsev, V.V., Doctor of Technical Science
Shagalova, S.L., Candidate of Technical Science
Aref'yev, K.M., Engineer

SOV/96-58-11-6/21

TITLE:

An Approximate Method of Calculating the Combustion
of a Pulverised Fuel Flame (Priblizhennaya metodika
rascheta vgoraniya pyleugol'nogo fakela)

PERIODICAL: Teploenergetika 1958, Nr 11, pp 33-41 (USSR)

ABSTRACT:

Previous work has established that the volatiles and coke burn simultaneously in the early stages of combustion of natural fuel. In fuel pulverised to 100 microns, the quantity of coke burned during the time of simultaneous burning of volatiles and coke is about 65 - 75%. As will be seen from Fig.1, the remaining coke burns very slowly and as the combustion time of the volatiles is so much less, the total burning time of the fuel is mainly governed by burning of the coke. For the purposes of mathematical analysis the simplifying assumptions are made that the pulverised fuel flame flows only forward and is of uniform section; also that the coke is ashless and the velocity and temperature

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An Approximate Method of Calculating the Combustion of a
Pulverised Fuel Flame

SOV/96-58-11-6/21

of the fuel particles are the same as the mean velocity and temperature of the gas. Tests show that these assumptions are valid for particles of up to 300 microns. The fundamentals of the calculation are explained in previously published articles and formulae are given for the combustion time of a particle of given size. On the basis of the equations that are derived, the condition of the flame at any given instant of time after a fuel particle enters the furnace is considered. Calculations are made of the quantity of fuel burning in a given time, the oxygen consumption, the oxygen concentration in the torch and the fuel particle size distribution. Finally a general solution is obtained from which are derived formulae for calculating the combustion of fuel dust in the diffusion and kinetic regions. For convenience of calculation, nomograms are constructed for equations 13, 21 and 22; these are given in Fig.4. These nomograms may be used to determine the combustion

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An Approximate Method of Calculating the Combustion of a
Fulverised Fuel Flame SOV/96-58-11-6/21

time of the flame provided that the elementary and fractional composition of the coal particles, the calorific value of the fuel, the kinetic constants of the coke, the amount of mechanically-incomplete combustion, the excess-air factor and the mean temperature in the furnace chamber are given. The nomograms can also serve to determine the amount of mechanically-incomplete combustion after the torch has burned for a given time and to indicate the best furnace conditions. They are likewise useful in comparing operation of various furnace arrangements and to solve a number of other problems. However, sufficient data is not available on the reaction characteristics of natural fuel. Therefore, the nomograms were first used to determine the combustion constants from data obtained during heat balance tests on industrial furnaces. The mean flame temperature enters into the calculation and the determination of this temperature is next considered.

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An Approximate Method of Calculating the Combustion of a
Pulverised Fuel Flame

SOV/96-58-11-6/21

An empirical formula for the temperature change over the length of the flame is given. The position of maximum temperature under various conditions is discussed. Several methods have been proposed to determine the mean temperature but they are not sufficiently in accord with combustion conditions. An expression is given for the determination of the mean temperature. By successive numerical integration of one side of this expression with subsequent determination of the mean temperature, graphs were constructed for the mean temperature of the flame. These are given in Fig.5. Practical test data are then analysed. The method of calculation described above was used to work out test results on a number of industrial furnaces in order to determine the combustion-rate constants for cokes of natural fuels. It was assumed that the mean particle velocity is the same as the gas velocity and that particles do not re-circulate. Forty series of industrial tests, totalling about 600 sets of

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An Approximate Method of Calculating the Combustion of a
Pulverised Fuel Flame SOV/36-58-11-6/21

results of tests on different types of furnace, were analysed. The fuels involved range from anthracite to lignite. The test data adequately covers the range of conditions encountered in industrial furnaces. The results are plotted in Fig.6. as the relationship between the logarithm of the apparent reaction-speed constant and the reciprocal of the absolute temperature. The values of the apparent kinetic combustion constants for any given fuel are grouped round a straight line with a maximum scatter of + 60% from the mean. Individual test results in which the burners were working irregularly are excluded. Provided combustion is normal, the values of the apparent constants for any given fuel are practically independent of burner construction and arrangement because in modern furnaces with long flames the initial mixing conditions influence only the stability of ignition. Because it was assumed

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An Approximate Method of Calculating the Combustion of a
Pulverised Fuel Flame

SOV/96-58-11-6/21

that the flame flows only forward the constants determined are not universally applicable but they can be used for combustion calculations on furnace chambers of the type here analysed. Further test data must be worked out for various industrial furnaces and rigs so that the influence of aerodynamic factors can be assessed and the values of more generally applicable constants determined. Comparison between the test data and laboratory data given in Fig.7. shows that in both cases the values of the constants are of the same order. Therefore, very extensive data obtained with different furnaces and different kinds of fuel have confirmed the general validity of the given method of analysing combustion. The accompanying methods of calculation, including the nomogram, can be used for quantitative evaluation of the behaviour of the combustion process under particular conditions in a given furnace. They can be used

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SOV/96-58-11-6/21

An Approximate Method of Calculating the Combustion of a
Pulverised Fuel Flame

to compare the operation of furnaces and to determine
the influence of various factors on the rate of fuel
consumption and also to compare different methods
of burning fuel. There are 7 figures, 1 table and
9 Soviet references.

ASSOCIATION: Tsentral'nyy koteloturbinnyy institut
(Central Boiler Turbine Institute)

Card 7/7

AREF'YEV, K.M.

Possibility of calculating the data for the combustion of coal
fines in combustion chambers. Nauch.tekh.inform.biul.LPI
no.12:9-19 '58. (MIRA 13:2)

(Combustion)

(Carbon)

AREF'YEV, K. M., Candidate of Tech Sci (diss) -- "Analysis of the process of combustion of a powdered-coal flame, and the development of methods of computing it". Leningrad, 1959. 17 pp (Min Higher Educ USSR, Leningrad Polytech Inst im M. I. Kalinin), 150 copies (KL, No 21, 1959, 114)

11.7400

S/123/61/000/008/012/013
A004/A104

AUTHORS: A'yev, K.M., Maslichenko, P.A., Paleyev, I.I.

TITLE: Calculating the evaporation of liquid fuel in a hot gas flow and estimating the possibility of igniting the forming mixture

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 8, 1961, 10, abstract 8152 ("Nauchno-tekhn. inform. byul. Leningr. politekhn. in-t", 1959, no. 8, 5 - 14)

TEXT: The authors give an account of the calculation method of the evaporation of a semi-dispersed aggregation of drops of liquid fuel taking into consideration the steam oxidation and the anisothermal character of the process. This method is somewhat conditional, but taken as a whole it presents a true characteristic of the process and a correct order of magnitudes. Calculation results are given. There are 5 figures and 8 references.

[Abstracter's note: Complete translation]

B. Zemel'man

Card 1/1

AREF'YEV, K.M.; MASLICHENKO, P.A.; PISKUN, L.F.

Aerosol generators. Trakt. i sel'khozmash. no.12:18-19 D '59.
(MIRA 13:3)

1. Leningradskiy politekhnicheskiy institut im. M.I. Kalinina.
(Aerosols)

S/196/61/000/006/012/014
E194/E435

AUTHORS: Pomerantsev, V.V., Shagalova, S.L., Aref'yev, K.M.

TITLE: Analysis and calculation of the combustion of a pulverized fuel flame

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika, 1961, No.6, p.10, abstract 6G62. (Sb. 3-s Vses. soveshchaniye po teorii gorenija. T.2., M., 1960, pp.158-160)

TEXT: Existing procedures for calculating the combustion of coal dust have not been used in engineering practice. New efforts in this direction have been undertaken in the TsKTI (Central Boiler and Turbine Institute). The procedure is based on solving the problem of combustion of a pulverized fuel flame which is of uniform particle size distribution across the section. The solution allows for the combined influence on the process of kinetic and diffusion factors and also allows for varying concentration and approximately for the temperature distribution in the flame. The main assumptions are: (1) the speed and temperature of the fuel particles are assumed to be the same as those of the gas flow in which they are carried; (2) when the fuel is milled the ash is

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Analysis and calculation of ..,

S/196/61/000/006/012/014
E194/R435

separated from the combustible materials; (3) combustion of fuel particles is considered as a quasi-stationary combustion of particles of dry ashless coke. Unlike other methods of calculation in solving the problem, the kinematic equation is written at once for the flame as a whole and the equation of combustion of an individual particle is used to determine the relationship between the dimensions of particles of different particle size during the process of their combined combustion. In this way it is ultimately possible to obtain an explicit relationship between the combustion time of the flame and the amount of material not burned. A simple method of calculation has been developed which uses a nomogram. The results of 800 tests have been worked out and this has shown the correctness of the procedure of calculation and has made it possible to determine apparent combustion speed constants for various types of fuel.
Abstracted by M.Knorre.

[Abstractor's note: Complete translation]

Card 2/2

SHAGALOVA, S. L., kand.tekhn.nauk} AREF'YEV, K.M., inzh.

Analyzing the effects of operating conditions parameters
on the magnitude of mechanical underfiring in compartment
furnaces. Teploenergetika 7 no.2:41-47 F '60.
(MIRA 13:5)

1. TSentral'nyy kotloturbinnyy institut.
(Furnaces)

+ WRITE BELOW THIS LINE +

P0114

ACCESSION NR: AP4044411

S/0170/64/000/008/0003/0008

AUTHORS: Areflyev, K. M.; Onedina, I. A.

TITLE: Criterial formula for critical heat load in subcooled liquids under forced flow

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 8, 1964, 3-8

TOPIC TAGS: heat transfer, boiling, forced flow, buoyancy, ammonia, ethyl alcohol, Reynolds number

ABSTRACT: The critical heat flow conditions in water, ammonia, and ethyl alcohol in forced flow were investigated analytically and experimentally. Combining the critical boiling condition $d_0^2 n Z_{cp} = C$,

with the specific heat flux in boiling

$$q = \rho c_p d_0^2 \Delta T_{cp} n Z$$

a general expression is derived for $q(\text{critical})$. The expression is given in terms of the similarity parameters

$$\tau_n = \frac{d_0}{U_0} / \left(\frac{U_0}{W}, \frac{\rho U_0 d_0}{\mu}, \frac{\mu c_p}{\lambda}, \frac{c_p T_s}{r}, \frac{\rho}{\rho_n} \right)$$

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ACCESSION NR: AP4044411

where gravity effects and buoyancy effects are neglected in the moving fluid. Buoyancy and surface tension constitute the force field on the vapor bubbles. In its final form the general expression for q_{cr} (critical) yields

$$\frac{q_{\text{cr}}}{\rho c_p (aT_s - T_{\text{zh}}) U_0} = 1.9 \cdot 10^{-3} \left(\frac{\rho U_0 d_0}{\mu} \right)^{0.2} \left(\frac{W}{U_0} \right)^{0.55}$$

The indices 0.2 and 0.55 in the above equation were selected from experimental data taken in water, ammonia, and ethyl alcohol under high pressure on the order of 200 psia and in tubes varying in diameter from 1 to 12 mm by I. T. Alad'yev and L. D. Dodonov (Sb. "Luchisticheskiy i konvektivnyy teploobmen" Izd. AN SSSR, 1960), A. P. Ornatskiy (Teploenergetika, No. 6, 1960; No. 2, 1963), A. P. Ornatskiy and A. M. Kichigin (Same, No. 2, 1961), and D. R. Bartz (Jet Propulsion, 28, No. 1, 1958). Orig. art. has: 7 formulas, 3 figures, and 1 table

ASSOCIATION: Politekhnicheskiy institut im. M. I. Kalinina g. Leningrad (Leningrad Polytechnic Institute)

SUBMITTED: 29Feb64

ENCL: 00

SUB CODE: ME, TD

NO REF Sov: 014

OTHER: 005

Card 2/2

AREF'YEV, K.M.; GNEDINA, I.A.

Criterional formula for critical heat loads in forced motions of
an undercooled liquid. Inzh.-fiz. zhur. 7 no.8:3-8 Ag. '64.

(MIRA 17:10)

l. Politekhnicheskiy institut im. M.I. Kalinina, Leningrad.

ACC NR: AP7002916 SOURCE CODE: UR/0170/66/011/006/0765/0772

AUTHOR: Aref'yev, K. M.; Paleyev, I. I.; Borishanskiy, V. M.; Khomchenkov, B. M.; Ivashchenko, N. I.

ORG: Polytechnical Institute im. M. I. Kalinin, Leningrad; (Politekhnicheskiy institut); Central Boiler and Turbine Institute, Leningrad (Tsentral'nyy kotloturbinnyy institut)

TITLE: Thermal diffusion of cesium gases in helium

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 11, no. 6, 1966, 765-772

TOPIC TAGS: cesium, helium, thermal diffusion, gas kinetics, helium cesium mixture

ABSTRACT: A study was made of the thermal diffusion of cesium vapor in helium using the Enskog-Chapman kinetic theory and taking into account the factor of condensation in Stefan flow. Thermal diffusion was found to comprise 55% of the concentrated diffusion and 35% of the total diffusion flow. It follows that in the case of the condensation of cesium gas from a cesium-helium mixture, thermal diffusion

Card 1/2

UDC: 533.15

ACC NR: AP7003916

must be considered to be an essential effect. Orig. art. has: 4 figures, and
7 formulas.

[GC]

SUB CODE: 20/SUBM DATE: 14Jul66/ORIG REF: 007/OTH REF: 002/

Card 2/2

AREF'YEV, L.

Factory management helps to improve living conditions of
women workers. Sots.trud 4 no.8:124-126 Ag '59.
(MIRA 13:1)

1. Zamestitel' direktora Kalininskogo kombinata iskusstvennogo
volokna.
(Women--Employment)

~~AHEF'YEV, M.G.; KARPOV, L.I.; BLAGONRAOV, A.A., akademik general-leytenant
artillerii, redaktor.~~

[Manufacture of firearm barrels] Proizvodstvo stvolov strelkovogo
oruzhiia. Moskva, Glav. red. vooruzheniya i boepripasov, 1945. 225 p.
(MIRA 7:1)
(Firearms industry)

SAMOKHVALOV, Sergey Feofilovich; AREF'IEV, M.I., inzh., retsenzent;
BRAYLOVSKIY, N.G., inzh., red.; USENKO, L.A., tekhn. red.

[Mechanized hand tools] Mekhanizirovannyi ruchnoi instrument.
Moskva, Transzheledorizdat, 1963. 226 p. (MIRA 16:5)
(Power tools)

AREF'YEV, M. S.

USSR/Chemistry - Electrolytes
Chemistry - Emulsions

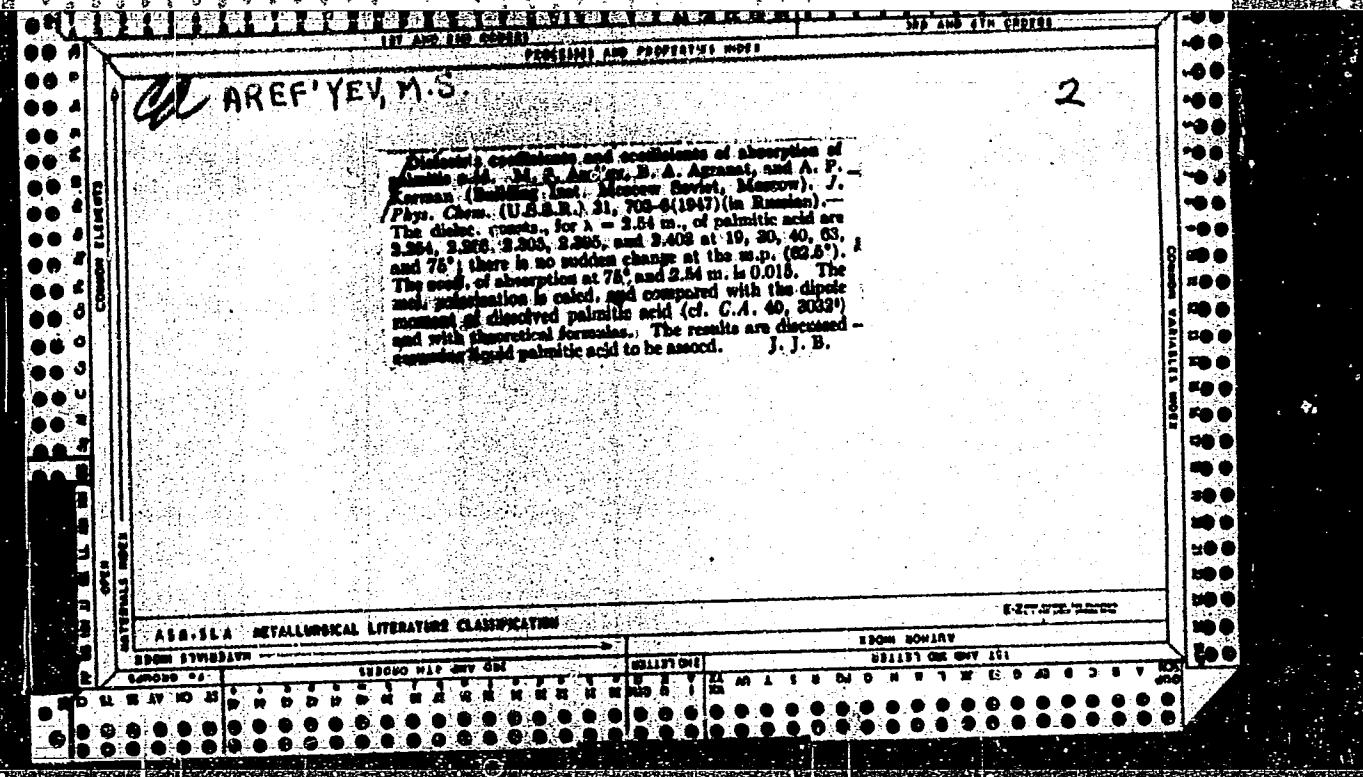
Feb 1947

"The Influence of the Concentration of Electrolytes in Water Present in Oil, on the Dielectric Constant of the Latter," N. N. Stepanenko, N. B. Vargaftik, M. S. Aref'yev, Physics Laboratory, Institute of Construction, Mossovet, 2 pp

"Kolloidnyy Zhurnal" Vol IX, No 2

Several scientists, among them Frenkel, have advanced the theory that it might be possible to apply Golubtsov's electrical method for determining the moisture content of petroleum products. As a result, the authors describe the experiments which they conducted to determine the effect of the concentration of electrolytes in water which is found in oil, and the effect this has on the dielectric constant of the oil. In the experiments the dielectric constant determined the capacity of the condenser.

PA 34T11



AREF'YEV, Mikhail Sergeyevich, dots.; MAL'CHIKOV, Yu.A., red.;
NAVIOTSKIY, O.G., tekhn. red.

[Practical work in physics using the method of comprehensive group studies; a textbook for laboratory work in physics for students of resident of correspondence courses at pharmaceutical institutes and faculties] Fizicheskii praktikum po metodu kom- pleksno-kollektivnykh issledovanii; rukovodstvo k laboratornym zaniatiiam po fizike dlja studentov farmatsevticheskikh insti- tutov i fakul'tetov ochnogo i zaочnogo otdelenii. Moskva, 1962. 248 p. (MIRA 15:10)

1. Moscow. Pervyy meditsinskiy institut. Kafedra fiziki.
(Physics--Study and teaching)

AREF'YEV, N.A.

Ram charge loader. Stek. i ker. 19 no.2:32-34 F '62.
(MIRA 15:3)
(Glass factories)

SOV/137-59-5-11298

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, p 259 (USSR)

AUTHOR: Aref'yev, N.P.

TITLE: Improved Operation of Metallurgical Shops

PERIODICAL: V sb.: Za novyyu tekhn. i progressivn. tekhnol., Minsk, Gos. izd-vo BSSR, 1958, pp 155 - 160

ABSTRACT: This is a description of measures to improve labor conditions and to raise efficiency of foundry, forge-pressing and heat treatment shops at domestic plants.

Ye.L.

Card 1/1

AUTHORS:

Yurzhenko, T. I., Grigcr'yeva, K. S.
Aref'yev, N. V., Vilenskaya, M. R.

20-118-5-34/59

TITLE:

The Synthesis of Alkylated Hydroperoxides of the 1,1-Diphenyl-ethane Series by the Method of Chromatographical Isolation
(Sintez alkilirovannykh gidroperekisey ryada 1,1-difeniletana s primeneniyem khromatograficheskogo metoda ikh vydeleniya)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 5, pp. 970-972
(USSR)

Card 1/4

The Synthesis of Alkylated Hydroperoxides of the 1,1-Diphenyl- 20-118-5-34/59
ethane Series by the Method of Chromatographical Isolation

nucleus, on the process of autoxidation and on the properties of the hydroperoxides. So the problem arose how to synthesize some hydroperoxides from the 1,1-diphenylethane and to introduce in one of the benzene nuclei in the para position at the central C-atom the following alkyl radicals: CH_3 (I),

C_2H_5 (II), $\text{CH}(\text{CH}_3)_2$ (III), and $\text{C}(\text{CH}_3)_3$ (IV) as well as $\text{H-C}_3\text{H}_7$.

As these hydroperoxides can be neither distilled nor crystallized, they were produced by the autoxidation of the corresponding hydrocarbons by means of the chromatographic method of isolation and purification. The synthesis of the initial hydrocarbons and the method of autoxidation are described. The velocity and the level of the accumulation of the hydroperoxides are given in table 2. These results show that the autoxidation of separate hydrocarbons takes place at an approximately equal velocity. At maximum velocity 0,25 - 0,35% hydroperoxide are formed. From that can be concluded that the nature of the alkyls introduced in the para position has no essential influence on the peroxidation in the place of the tertiary C-H linkage. The thermal stability of the peroxide seems to decrease with the

Card 2/4

The Synthesis of Alkylated Hydroperoxides of the 1,1-Diphenyl-^{20-118-5-34/59} ethane Series by the Method of Chromatographical Isolation

elongation of the aliphatic chain at the tertiary carbon atom. The methodology of the isolation and purification according to the chromatographical method (reference 7) is described. Table 3 gives data of the reproduced peroxides (I - V). The peroxides were also characterized by chemical methods according to their decomposition products. From the data obtained here it can be concluded that these peroxide compounds represent tertiary hydroperoxides. Their structures are explained by formulae; they can be denominated as follows: I: 1-phenyl-1-p-tolylethane-hydroperoxide; II: 1-phenyl-1-p-ethylphenylethane-hydroperoxide; III: phenyl-1-cumylethane-hydroperoxide-1; IV: 1-phenyl-1-4-tributylphenylethane-hydroperoxide-1; V: 1,1-diphenyl-n-butane-hydroperoxide-1. There are 3 tables and 10 references, 5 of which are Soviet.

ASSOCIATION: L'vovskiy politekhnicheskiy institut (L'vov Polytechnical Institute)

PRESENTED: October 5, 1957, by B. A. Arbuzov, Member, Academy of Sciences
Card 3/4 USSR

The Synthesis of Alkylated Hydroperoxides of the 1,1-Diphenyl- 20-118-5-34/59
ethane Series by the Method of Chromatographical Isolation

SUBMITTED: October 2, 1957

Card 4/4

Aref'yev, N.K.

Amidst the vast space; distant voices stir amidst

California Telecommunications & Utility Rate: Second Statute (Ordinance of October 20, 1979). 234 p. Article 1 (Collection of Articles) Number, Idaho # 8551, 2,200 copies printed.

Mr.: K. N. Ramamurthy, Corresponding Member, Academy of Sciences, U.S.A.; Dr. S. S. Publishing House; E. M. Srinivasan, Tech. Edt: L. P. Kurushetra.

PURPOSE: This collection of articles is intended for chemical literature on hydrocarbon oxidation reactions, particularly for those specializing in petroleum fuels.

CONTENTS: This collection of 35 articles represents the results of investigations over a period of several years on problems of hydrocarbon oxidation. The author presents their own theoretical and experimental data and also draws from extensive literature. No personalities are mentioned. References accompany each of the articles.

Sargent, P.G. (Deceased), R.W. Kline, and B.L. Goldmark. *Characteristics of the Thermal Decomposition of Certain Aliphatic- α -methyl Hydrogen Compounds*. *J. Research, National Bureau of Standards*, **60**, 207 (1956).

REFERENCES

The kinetics of the thermal decomposition of the hydroperoxides of *tert*-butylbenzene and of *sec*-butylbenzene, with and without solvents, *tert*-butylbenzene and of *sec*-butylbenzene. It is shown that the thermal decomposition of *sec*-butylbenzene and *tert*-butylbenzene hydroperoxides differ greatly.

Prud'homme, R.V., A.R. Tarashchuk, and M.A. Krytova [R. V. Prud'homme et al., *J. Russ. Phys.-Chem. Soc.*, 1895, 13, 101].

This universal solvent is particularly useful in reactions by molecular diffusion. The rate of hydrogen peroxide decomposition and the rate of conversion of styrene to styrene oxide by various catalysts in hydrocarbons was investigated. The presence of increased oxygen, hydrogen and bromine peroxide stability in the aromatic phase, and the use of various halogeno-hydrocarbon solvents were used. Isopropanolamine is more

224
easily oxidized than β -dihydroxyalcohols.

Portsmouth, R.I., Feb. 12. Orderly Room, U.S. Army, and U.S. Volunteers] Privately Polled, by the Committee of the U.S. Polytechnic School, of the 1st Regt. of Alabamian Regulars, Residents of the 1st Regt.

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[Received March 14, 1948]

Kleibergen, K. J., and Z. V. Dierckx: *On the Oxidative Polymerization of Vinyl Chloride, Acrylic Acid, and Styrene.* In the Authoritative Series of *Advances in Chemistry*, Vol. 11, pp. 1-100. The authors have shown that the polymerization of vinyl chloride, styrene, and acrylic acid is characteristic of the oxidative processes of all carboxylic acids. The results obtained are particularly important for understanding the chemistry of the particularly important carboxylic acids.

Serevra, V.I. [Moscow State University David M.V. Lomonosov].
Institut of The Section of Organic Peroxides With the Institute Zem
The author considers from the kinetics of the separation of iodine
by a given provides that it is possible to determine the peroxide
in a class.

Chodat, L.E. [Institute of Chemical Physics, Academy of Sciences USSR]. 293
Classification Methods of Determining Particulate Acids of Normal Structure
The author has used paper chromatography to separate mixtures of
hydroxylic acids up to C₆ and their derivatives, and the distribution
of acids in the mixture above or with a carrier.

AREF'YEV, N. V.

PAGE I BOOK EXPLOITATION - 30/4726

Kiev: Goudarstvennyy nauchno-issledovatel'skiy i proektirovaniy in-stitut ugol'noy rudnoy, neftyanoy i gazonovoy promyshlennosti Nauchnoye raziskat. vyp. 1: Dobycha i pereberezhka nefti (Sci-entific Reports of the State Scientific Research and Project Institute for the Coal, Mining, Oil, and Gas Industry) No. II Extraction and Processing of Petroleum) Kiev, 1960. 91 p. 1,000 copies printed.

Sponsoring Agencies: Ukrzdrav Goudarstvennaya Planzaya kembasya proektirovaniy i issledovaniy "Neftegiproekt".
Soviet Minister: Goudarstvennyy nauchno-issledovatel'skiy i proyektirovaniy in-stitut ugol'noy rudnoy, neftyanoy i gazonovoy promyshlennosti "Neftegiproekt".

Editorial Council: V. P. Akimenko, S. V. Andrianov, S. I. Balinetsky, V. Ya. Volchanskii, D. I. Golikov, V. S. Grishchenko (Head), A. P. Kotov, M. I. Lazarev, V. N. M. Otrivko, L. M. Orlochekov-Savitskii, G. V. Prisadetskii, V. T. Sal'yar (Deputy Chairman), N. Yu. V. T. Solntsev, cand. of phys. and math. sci. for this collection; Ed.: A. Morik. Card 1/5

PURPOSE: This collection of articles is intended for petroleum researchers, engineers, and refiners.

COVERAGE: The collection of articles deals with the production and refining of petroleum. Individual articles discuss the effect of bound water on the depletion of petroleum deposits under dissolved gas conditions; the effect of pressure on the viscosity of de-gassed petroleum; the structure of high-molecular-weight petroleum hydrocarbons; the asphaltenes and tar components of Carpathian crudes and naphthalene shale asphaltic and the aliphatic composition of alcohols produced by selective hydrogenation of the CO and H₂ product of synthesis. Other articles describe the carbamide devolatizing method for filtrates of tar distillates, the production of flotation agents with the use of oxidized petroleum and the investigation of alkyl-number aromatic and naphthalene hydrocarbons by means of infrared absorption spectra. The remaining articles are on the relations of pressure-volume-temperature-ethylene and on the phase equilibrium in ethylene-ethane, ethylene-propane, and ethylene-butane systems. Specific volumes and compression coefficients

PETROLEUM REFINING

Sorochynko, S. R., Ye. V. Labedev, and A. A. Milkovskaya. On the Structure of High Molecular Hydrocarbons of Petroleum. On 13 Card 3/5

Sal'yar, V. T., A. P. Il'inskii, I. P. Malinov, and G. A. Ruchkovskaya. Study of Six-Membered Aromatic and Naphthalene Hydrocarbons by Infrared Absorption Spectra. 25

Solntsev, V. T., I. M. Samtsova, T. G. Sokolova, and M. V. Kef'yev. Asphaltene and Tar Components of Some Carpathian Petroleums and Asphalts of Naphthalene Shales. 30

Sabirova, O. V., O. M. Shapovalov, and V. N. Karaseva. Production of an Effective Flotation Agent Based on Oxidized Petroleum. 56

Zhurba, A. S., and T. P. Zhurba. Comparison of the Ethylene-n-Hexane, Ethylene-Cyclohexane, and Ethylene-Benzene Systems by the P-v-T-N [pressure-volume-temperature-molar fraction of ethylene in the mixture] Relations and Phase Equilibrium. 68

Zhurba, T. P., and A. S. Zhurba. Specific Volumes and Compression Coefficients of the n-Hexane-Ethylene System in the Interval of Pressure to 150 atm and Temperature of 30-150°C. 78

GRINBERG, I.V.; PETRIKOVSKAYA, M.Ye.; AREF'YEV, N.V.

Study of the chemical, genetic and isotopic relationship of
gas-condensate hydrocarbons in the Carpathian region. Geol.
sbor. [Lvov] no.7/8:54-65 '61. (MIRA 14:12)

1. Institut geologii poleznykh iskopayemykh AN USSR, Lvov.
(Carpathian Mountain region—Hydrocarbons)

TVARDIOVA, R.A.; ASTASHOVA, A.N.; AREF'YEV, N.V.

Regularities in the change of the properties of oils and
bitumens in the Devonian sediments of Volgograd Province.
Geol. nefti i gaza 8 no.3:33-37 Mr '64. (MERA 17:6)

1. Volgogradskiy nauchno-issledovatel'skiy institut neftyanoy
i gazovoy promyshlennosti.

AREF'YEV, P.

Afterwork duty at the factories and in offices. Sov. profsoiuzy
7 no.11:46-47 Je '59. (MIRA 12:9)

1.Zaveduyushchiy otdelom okhrany truda TSentral'nogo komiteta
profsoyuza rabotnikov gosudarstvennykh uchreshdeniy.
(Overtime)

AREF'YEV, Sergey Danilovich; SVET, Ye.B., red.

[Operation of gas-fired heating boilers; handbook for
stokers of gas-fired boilers] Ekspluatatsiia otopitel'-
nykh kotlov na gozovom toplive; posobie dlja kochegarov
kotlov, otaplivayemykh gazom. Cheliabinsk, Cheliabinskoe
knizhnoe izd-vo, 1963. 176 p. (MIRA 17:11)

AREF'YEV, S.S.

OISUF'YEV, N.G.; TSVETKOVA, Ye.M.; BORODIN, V.P.; KOROLEVA, A.P.; SIL'CHENKO, V.S.; KHOROSHEV, I.G.; MYASHIKOV, Yu.A.; PERFIL'YEVA, Z.A.; KRATOLHVIL', N.I.; VAYSTIKH, M.A.; RAVDONIKAS, O.V.; BARANOVA, N.K.; ZIMINA, V.Ye.; TORMASOVA, L.N.; USTIN-PETROVA, T.F.; AREF'YEV, S.S.; KOKINA, N.S.; KUL'BA, A.P.; MAL'TSEVA, N.K.; SHELANOVA, G.M.; SORINA, A.M.; BRA-NITSKAYA, V.S.; PRUDNIKOVA, M.N.

Tularin from a vaccinal strain for epicutaneous use. Zhur. mikro-biol.epid. i immun. 27 no.9:22-28 S '56. (MLRA 9:10)

1. Iz Instituta epidemiologii i mikrobiologii im. N.F.Gamelei AMN SSSR i protivotuliaremynykh stantsiy Stalingradskoy, Voronezhskoy, Tul'skoy, Plavskoy, Omskoy, Krasnodarskoy, Moskovskoy i Smolenskoy.
(TULAREMIA, diagnosis,
tularin, epicutaneous test (Rus))

OISUF'YEV, N.G.; YEMEL'ANOVA, O.S.; UGLOVOY, G.P.; SIL'CHENKO, V.S.; KHOROSHEV, I.G.; YEZHOOVA, Ye.N.; BESSONOVA, M.A.; VEDENEYEVA, Ye. V.; AREF'YEV, S.S.; SHELANOVA, G.M.; SORINA, A.M.; BORODIN, V.P.; KOROLEVA, A.P.; SUVOROVA, A.Ye.; ONIKHIMOVSKAYA, V.A.; STOLYAROVA, A.D.; BYSTROVA, K.A.; REPINA, R.F.; MYASNIKOV, Yu.A.; LEVACHEVA, Z.A.; YEGIAZARYAN, K.K.; RAVDONIKAS, O.V.; SARMANEYV, A.P.

Optimal periods for testing skin reaction in subjects inoculated against tularemia with a dry live vaccine and vaccinal, reactogenic and immunogenic properties of this preparation. Zhur. mikrobiol. epid. i immun. 32 no.6:92-98 Je '61. (MIRA 15:5)

1. Iz otdela prirodnoochagovykh infektsiy Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR, otdelov Osobo opasnykh infektsiy Voronezhskoy, Leningradskoy, Moskovskoy, Smolenskoy, Stalingradskoy, Tambovskoy, Tul'skoy, oblastnykh sanitarno-epidemiologicheskikh stantsiy i Omskogo instituta epidemiologii, mikrobiologii i gigiyeny.

(TULAREMIA) (VACCINES)

A.GEF'YEV, T. I.

Beets and Beet Sugar

Question of overall mechanization of sugar-beet cultivation. Sots. sel'.khoz. 23, no. 4, April 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS, LIBRARY OF CONGRESS, AUGUST 1952. UNCLASSIFIED.

AREF'YEV, Tikhon Ivanovich; YELAGIN, Mikhail Nikolayevich; IVANOVA, A.N.,
red.; PLEVNIK, V.I., tekhn.red.

[Economy of collective beet farms] Ekonomika sverkloseiushchikh
kolkhozov. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 172 p.
(MIRA 13:5)

(Sugar beets)

BUZANOV, I.F., red.; VARSHAVSKIY, B.Ya., red.; ORLOVSKIY, N.I., red.; PODTYKAN, Ya.P., red.; SHEVCHENKO, V.N., red.; POZHAR, Z.A., red.; AREF'YEV, T.I., red.; USHAKOV, A.F., red.; MAKSIMOVICH, A.Ye., red.; SIDOROV, A.A., red.; DANIKOVA, M.G., red.; SERDYUK, B.M., red.; LAPCHENKO, K.P., tekhn. red.

[Basic conclusions of research work in 1959-1960] Osnovnye vody nauchno-issledovatel'skikh rabot za 1959-1960 gg. Kiev, Izd-vo UASKhN, 1962. 308 p. (MIRA 16:4)

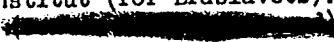
1. Kiev. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti. 2. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Buzanova).

(Sugar beets--Research)

AREF'YEV, T.I., kand. ekon. nauk; BRASLAVETS, M.Ye., prof., doktor ekon. nauk; BROZGUL', M.M.; VLASOV, N.S., prof., doktor ekon. nauk; DUBROVA, P.F., doktor ekon. nauk; YESAULOV, P.A., kand. sel'khoz. nauk; ZAL'TSMAN, L.M., prof., doktor sel'khoz. nauk; KAL'M, P.A., dotsent, kandidat sel'sko-khoz. nauk; KOSTSELETSKIY, N.A., kand. ekon. nauk; KRYLOV, V.S., kand. sel'khoz. nauk; LIBKIND, A.S., dots., kand. ekon. nauk; MAKAROV, N.P., prof., doktor ekon. nauk; OGLOBLIN, Ye.S., kand. sel'khoz. nauk; POLOVENKO, S.I., kand. ekon. nauk; PUPOV, S.A., dots., kand. ekon. nauk; SAPIL'NIKOV, N.G., doktor ekon. nauk; TISHCHENKO, G.A., prof., kand. ekon. nauk; TYUTIN, V.A., prof., doktor ekon. nauk; YANYUSHKIN, M.F., kand. ekon. nauk; PYLAYEVA, A.P., red.; FREYDMAN, S.M., red.; SOKOLOVA, N.N., tekhn. red.

[Organization of socialist agricultural enterprises] Organizatsiya sotsialisticheskikh sel'skokhoziaistvennykh predpriiatii; kurs lektsii. Moskva, Sel'khozizdat, 1963. 662 p.

(MIRA 16:8)

1. Zaveduyushchiy otdelom ekonomiki Vsesoyuznogo nauchno-issledovatel'skogo instituta sakharnoy sverkly (for Aref'yev).
2. Odesskiy sel'skokhozyaystvennyy institut (for Braslavets). 

BUZANOV, I.F.; SAMBUROV, V.I.; YEMETS, G.M.; ORLOVSKIY, N.I.;
NEGOSKII, N.A.; FEDOROV, A.I.; GREKOV, M.A.; KURBATOV,
S.T.; MEL'NICHUK, A.N.; TONKAL', Ye.A.; GORNAYA, V.Ya.;
ROZHDESTVENSKIY, I.G.; SIDOROV, A.A.; KUDARENKO, F.F.;
BROVKINA, Ye.A.; GELLER, I.A.; DOBROTVORTSEVA, A.V.;
VARSHAVSKIY, B.Ya.; KUTSURUBA, N.V.; KUZ'MICH, S.I.;
PRESNYAKOV, P.V.; USHAKOV, A.F.; SHEVCHENKO, V.N.;
KHUCHUA, K.N.; PETRUKHA, Ye.I.; POZHAR, Z.A.; SHAPOVALOV,
P.T.; AREF'YEV, T.I.; GRIGOR'YEVA, A.I., red.; BALLOD,
A.I., tekhn. red.

[Sugar beets] Sakharnaya svekla. Moskva, Sel'khozizdat,
1963. 487 p. (MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sa-
kharnoy svekly. 2. Nauchnyye sotrudniki Vsesoyuznogo
nauchno-issledovatel'skogo instituta sakharnoy svekly
(for all except Grigor'yeva, Ballod).
(Sugar beets)

LAPTEV, I.D.; TERYAYEVA, A.P.; SAPIL'NIKOV, N.G.; CHENTSOV, R.Ye.
[deceased]; SEPP, Ya.P.; SUVOROVA, L.I.; ZASLAVSKAYA, T.I.;
GREKOVA, A.I.; TONKOVICH, V.S.; IERAGIMOV, A.I.; KOTSYUBA,
T.Ya.; KURYLEV, V.M.; KOVALEVSKIY, G.T.; KALNINS, A.A.
[Kalnins, A.]; SIDOROVA, M.I.; MALISHAUSKAS, V.I.
[Malisauskas, V.]; PASECHNIK, P.P.; BUGAREVICH, V.S.;
KARNAUKHOVA, Ye.I.; AREF'YEV, T.I.; KAZAKOV, I.G.;
GUMOVSKIY, I.A.; SEMIN, S.I., red.; LINKUNA, N.I., red.;
TSITKO, I.A., red.; VOLKOVA, V.V., tekhn. red.

[Material incentives for developing the collective farm production]
Material'noe stimulirovanie razvitiia kolkhoznogo pro-
izvodstva. Moskva, Izd-vo AN SSSR, 1963. 326 p.

(MIRA 16:12)

1. Akademiya nauk SSSR, Institut ekonomiki.
2. Institut ekonomiki AN SSSR (for Laptev, Teryayeva, Suvorova, Zaslavskaya, Sidorova, Karnaukhova).
3. Sredneaziatskiy gosudarstvennyy universitet (for Sapil'nikov).
4. Komi filial AN SSSR (for Chentsov).
5. Institut ekonomiki AN Estonskoy SSR (for Sepp).
6. Bashkirskiy filial AN SSSR (for Grekova).
7. Institut ekonomiki AN Beloruskoy SSR (for Tonkovich, Kovalevskiy).
8. Institut ekonomiki AN Uzbekskoy SSR (for Ibragimov).

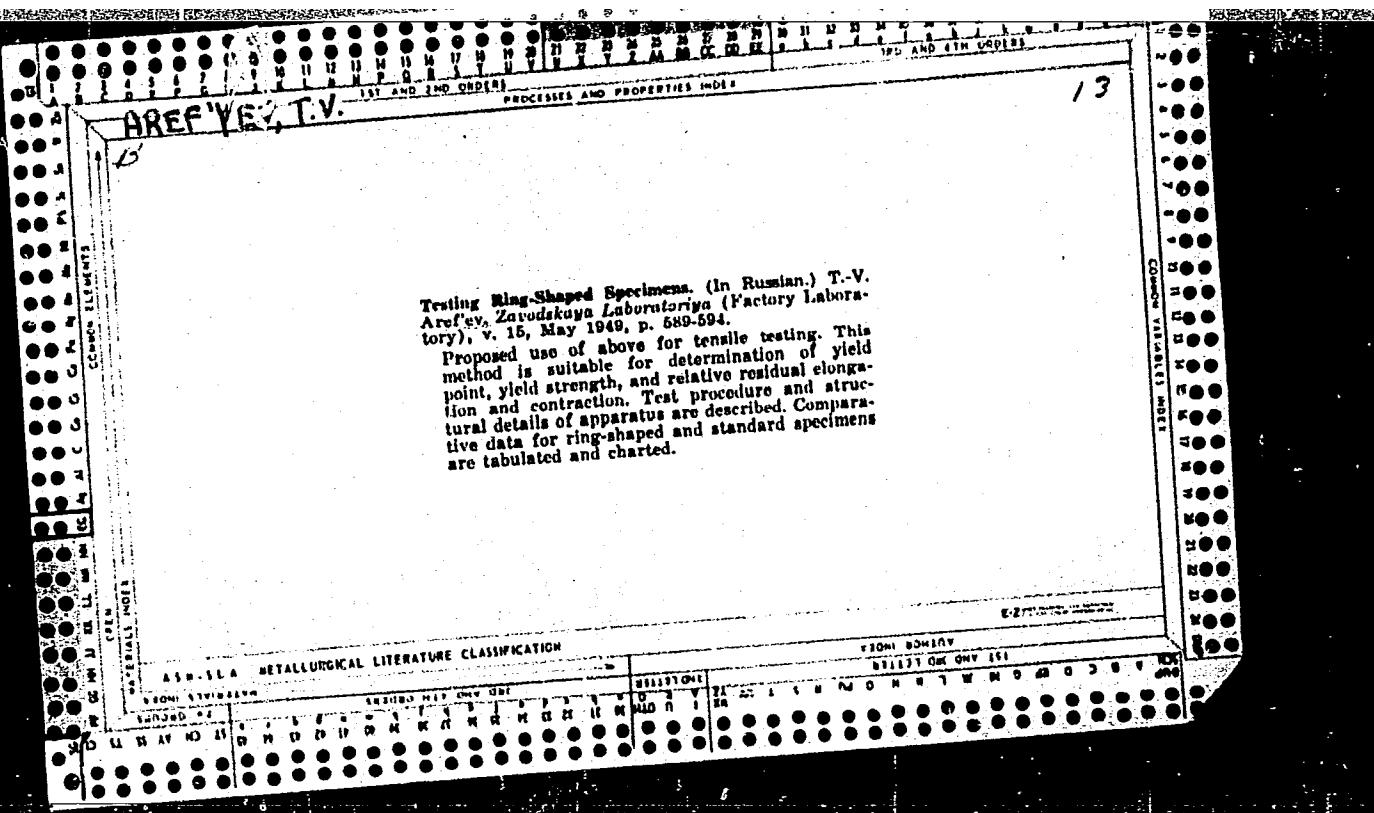
(Continued on next card)

LAPTEV, I.D.--- (continued). Card 2.

9. Institut ekonomiki AN Ukr.SSR (for Kotsyuba, Pasechnik).
 10. Belorusskiy institut ekonomiki i organizatsii sel'sko-khozyaystvennogo proizvodstva (for Bugarevich).
 11. Vsesoyuznyy institut sakharnoy sverkly (for Aref'yev).
 12. Institut ekonomiki AN Kirgizskoy SSR (for Kazakov).
 13. Rabotnik TSentral'nogo komiteta Kommunisticheskoy partii Moldavskoy SSR (for Gomovskiy).
 14. Kuybyshevskiy planovyy institut (for Kurylev).
- (Collective farms--Income distribution)

ALTAYSKIY, I.P., kand. sel'khoz. nauk: CHESHKOV, A.F., kand. ekon. nauk; MALIN, A.S., kand. ekon. nauk [deceased]; BOROVSKIY, V.A., kand. ekon. nauk; AREF'YEV, T.I., kand. ekon. nauk; GLINYANYY, V.G., kand. ekon. nauk; FRAYER, S.V., kand. sel'khoz. nauk; VINTAYKIN, Z.P., kand. ekon. nauk; DUDOROV, I.T., kand. ekon. nauk; BUSAROV, N.A., kand. sel'khoz. nauk; LUK'YANOV, A.D., kand. sel'khoz. nauk; RAKITINA, Ye.D., red.; SOKOLOVA, N.N., tekhn. red.

[Production brigades on collective and state farms] Proizvodstvennye brigady v kolkhozakh i sovkhозakh. Moskva, Sel'khozizdat, 1963. 374 p. (MIRA 17:1)
(Farm management)



AREF 'YEV,T., ka ndidat tekhnicheskikh nauk

Sectional block building of superstructures. Rech. transp.
14 no.6:24-26 Je '55. (MLRA 8:9)
(Shipbuilding)

ARMF'YEV, T.V., kandidat tekhnicheskikh nauk.

Substantiating the choice of the keel block method of assembling
ships. Sudostroenie 23 no.2:41-46 F '57. (MLRA 10:5)
(Shipbuilding)

DORMIANTOV, Nadija Konstantinovna; AREF'YEV, Timofey Vasil'yavich;
KISELEV, Nina Arsen'yevna; KUZ'MENKO, Vladimir Kuz'mich;
LUK'YANOV, Petr Gor'yevich[deceased]; NIKITIN, Yevgeniy
Vladimirovich; TURUMOV, Savva Matveevich; CHERVYAKOV, V.I., laureat
Lehansky premii, inzh., retsenzenter; MESHCHERYAKOV, V.V., inzh.,
tekhn. red.; NAZAROV, Yu.S., red.; CHISTYAKOVA, R.K., tekhn. red.

[shipbuilding technology] Tekhnologija sudostroeniia. Pod ob-
shchel red. V. L. Dormiantova. Leningrad, Sudpromgiz, 1962. 695 p.
(MIRA 16:1)

(shipbuilding)

L 09136-67 EWT(m)/EWP(v)/EWP(j)/EWP(t)/ETI/EWP(k) IJP(c) JI/ID/RM
ACC NR: AP6031281 (N) SOURCE CODE: UR/0229/66/000/008/10054/003

AUTHOR: Aref'yev, T. V.; Dormidontov, V. K.

ORG: None

TITLE: Glued joints in shipbuilding

SOURCE: Sudostroyeniye, no. 8, 1966, 54-58

TOPIC TAGS: marine engineering, glue, glue welding, metal gluing, fiberglass, reinforced plastic

ABSTRACT: The authors study various types of glued joints, select the best types of glue for their respective uses and test glued joint specimens for strength. The results of this study showed that the use of metal, plastic-composition and combination of glued joints is feasible in shipbuilding. Static load and vibration testing showed that glued steel and fiberglass-reinforced plastic joints are as strong as welded joints and further that glued joints made of light alloy and fiberglass-reinforced plastics are stronger than welded joints. It was also shown that a glued joint incorporating two fiberglass-reinforced plastic members may be stronger than a single unit made up of pure fiberglass-reinforced plastic. It is suggested that a series of designs be put forth which can be realized completely by gluing in order to make the introduction of glued, glued-welded and glued-riveted joints easier. Among other recommendations is standardization of boatbuilding and mechanizing gluing. Orig. art, has: 3 tables.

SUB CODE: 13// SUBM DATE: None/ ORIG REF: 005

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UDC: 621.792

AREF'YEV, V.

Tires manufactured in excess of the plan. NTO no.1:52 Ja '59.

(MIRA 12:2)

1. Zamestitel' glavnogo inzhenera Yaroslavskogo shinnogo zavoda.
(Yaroslavl--Tires, Rubber)

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CIA-RDP86-00513R000101930001-6

AREF'YEV, V., inzh. (Sverdlovsk)

Library for 150,000 volumes. Na stroi. Ros. no.10:34 0 '61.
(MIRA 14:11)
(Sverdlovsk--Libraries, Regional)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000101930001-6"

AREF'YEV, V.

Scouts of the chemistry of big molecules. NTO 6 no. 6:23-26
Je '64. (MIRA 17:8)

1. Predsedatel' soveta Vsesoyuznogo khimicheskogo obshchestva
im. Mendeleyeva i glavnnyy inzh. Yaroslavskogo shinnogo zavoda.

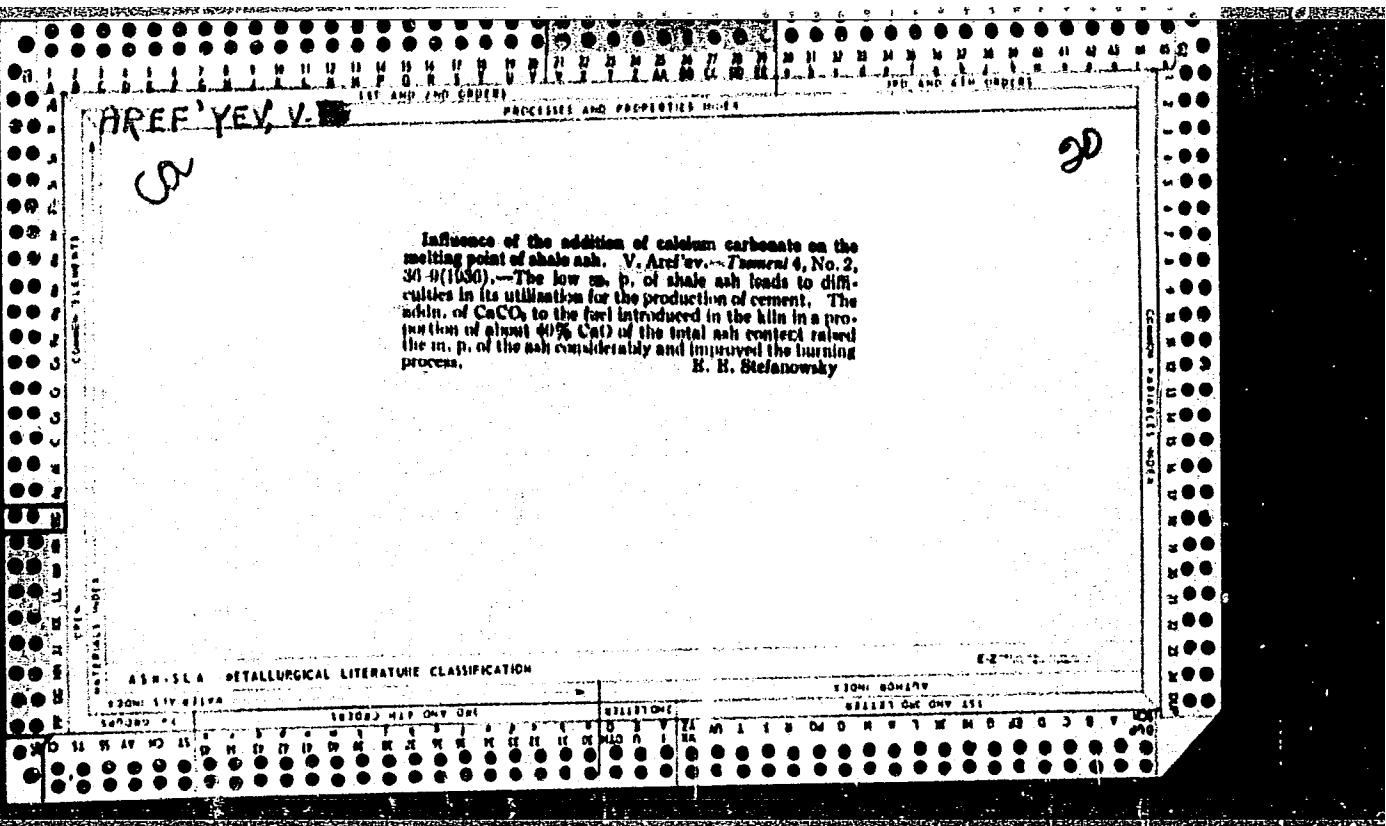
AREF'YEV, V.A.

Limans of the Caspian Depression. Priroda 45 no.5:85-88 My '56.
(MLRA 9:8)

1. Institut geografii Akademii nauk SSSR.
(Caspian Depression--Irrigation)

KARPOV, A.S., inzh. (Kalininograd); TERESHCHENKO, V.I., mekhanik
puteizmeritel'nyy telezhki (Stantsiya Belgorod, Yuzhnay dorogi);
AREF'YEV, V.A., starshiy dorozhnyy master (Stantsiya Poletayevo I,
Yuzhno-Ural'skoy dorogi)

Letters to the editor. Put' i put.khoz. 5 no.8:45 Ag '61.
(MIRA 14:10)
(Railroads)



"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000101930001-6

AREF'YEV, V.A.

Method for determining technical norms for rotary kilns. Trudy
GI PROTSEMENT 8:69-82 '47. (MIRA 10:4)
(Kilns, Rotary)

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CIA-RDP86-00513R000101930001-6"

AREF' YEV, V.A., inzhener.

Rotary kilns functioning with a water cooling system of the,
clinkering zone. TSegment 17 no.6:3-5 N-D '51. (MLRA 9:8)
(Leningrad--Kilns, Rotary)

AREF'YEV, V. A. Eng.

Perfecting rotary kilns. TSegment 18, no. 3, 1952.

SO: MLRA, October 1952.

A REF' YEV, VZA

and early stages the ratio was 0.40, 0.40, 0.40
and 0.40, CIA 5.2 and CAF 10.0%. The crushing strength of
cement and clinkers were compared at 10% water was pro-
vided to clinker by the 1:1 method and about 7.5% by
the 1:1.5 method.

AREF'YEV,V.A.

Shale coke is a useful material in the cement industry. Trudy
VNIIPS no.3:219-228 '55. (MIRA 8:12)
(Baltic Sea region--Oil shales) (Hydrocarbons)

AREF'YEV, V.A., inzhener.

Work practices in Czech cement mills. TSement 22 no.4:27 Jl-Ag '56.
(MLRA 9:10)

(Czechoslovakia--Cement industries)

AREF'YEV, V., inzhener.

Work of rotary kilns fired with high-pressure gaseous fuels.
Stroi. mat. 3 no. 4:20-21 Ap '57. (MLRA 10:6)
(Kilns, Rotary) (Gas as fuel)

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AHEF'YEV, V.A., inzhener; CHERNENKO, A.S., inzhener; TKACHEV, V.V., inzhener.

Increasing ball mill productivity. TSegment 23 no.1:21-23 Ja-F '57.
(Crushing machinery) (MLRA 10:4)

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CIA-RDP86-00513R000101930001-6

AREF'YEV, V.A., inzh.; IVANISHCHEV, G.G., inzh.

Brief news. TSement 26 no.3:31 My-Je '60. (MIRA 13:?)
(Cement industry)

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ANISIMOV, N.M.; AREP'YEV, V.A.; VINSHTEYN, E.S.; ZATSEPELIN, V.G.

Pneumatic mixing of raw mixes. TSement 26 no.5:19-22 S-0 '60.
(MIRA 13:10)
(Krivoy Rog--Cement plants) (Mixing machinery)

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AREF'YEV, V.A.; TKACHEV, V.V.

Technical consultation. TSement 27 no.3:31 My-Je '61. (MIRA 14:7)

1. Giprotsement.

(Cement plants--Equipment and supplies)

SYCHEV, Maksim Maksimovich; AREF'YEV, V.A., inzh., nauchnyy red.;
ROTBENBERG, A.S., red. izd-va; PUL'KINA, Ye.A., tekhn. red.

[Technical properties of raw cement mixes]Tekhnologicheskie
svoistva syr'evykh tsementnykh shikht. Leningrad, Gosstroj-
izdat, 1962. 135 p. (MIRA 15:10)
(Cement)

AREF'YEV, V.A.; VOLKONSKIY, B.V.; SEMENDYAYEV, A.F.

Main trends in the improvement of the technology of cement manufacture. TSement 28 no.2:5-6 Mr-Ap '62. (MIRA 15:8)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy i nauchno-issledovatel'skim rabotam tsementnoy promyshlennosti.
(Cement plants)

AREF'YEV, V.A., inzh.

Gas nozzles on rotary kilns. TSement 28 no.3:22-23 My-Je '62.
(MIRA 15:7)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy
i nauchno-issledovatel'skim rabotam tsementnoy promyshlennosti.
(Kilns, Rotary—Equipment and supplies)
(Nozzles)

AREF'YEV, V.A.

Shortcomings of the snow removing machine. Put' i put. khoz. 8
no.10:41 '64. (NIRA 17:12)

1. Stantsiya Poletayevs, Yuzhno-Ural'skoy dorogi.

AVERKIYEV, A.S., red.; AGEYEV, Ya.P., dots., otv. red.; AREF'YEV, V.A., dots., kand. ekon. nauk, red.; DEMIDOV, S.F., akademik, red.; KARSHIN, V.Ye., dots., red.; KOGAN, A.Ya., starshiy prepodav., red.; MAKHALOV, V.I., starshiy prepodavatel', red.; PITAYEVSKIY, P.I., prof., red.; SLOBODIN, V.M., prof., red.; SHOLOKHOV, Ye.I., red.

[Problems in the new system of agricultural planning] Voprosy no-vogo poriadka planirovaniia sel'skogo khoziaistva; trudy. Kyiby-shev, Kuibyshevskii planovoi in-t, 1961. 419 p. (MIR: 15:12)

1. Mежхусовская научная конференция, Куйбышев, 1960.
2. Заместитель председателя Куйбышевской областной комиссии (for Averkiyev).
3. Куйбышевский плановый институт (for Ageyev, Makhalov, Karshin).
4. Действительный член Всесоюзной академии сельскохозяйственных наук имени В.И.Ленина и Московская ордена Ленина сельскохозяйственная академия имени К.А.Тимирязева (for Demidov).
5. Уральский филиал Академии наук СССР (for Slobodin).
6. Заместитель начальника отдела сельского хозяйства и заготовок Государственного планового комитета Совета Министров РСФСР (for Sholokhov).

(Agricultural policy)

AREF'YEV, V.A., inzh

What should be the design of heavy-duty rotary kilns? Cement 30
no. 6:14 N.D '64. (MIRA 18:1)

1. Vsesoyuznyy gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
institut tsementnoy promyshlennosti.

AREF'YEV, V.A.

Special pads. Put' i put. khoz. 9 no.2:39 '65.

(MIRA . 3:7)

1. Stantsiya Poletayevo I, Yuzhno-Ural'skoy dorogi.

AREF'YEV, V.A., Inzh.; DIMENT, P.M., Inzh.

Use fuel and electric power economically. TSegment 31 no.2:1-2
Mr-Apr '65. (MIRA 18:8)

1. Gosudarstvennyy vsesoyuznyy institut po proyektirovaniyu i
nauchno-issledovatel'skim rabotam tsementnoy promyshlennosti,
Leningrad.

AREF'YEV, V.B.; LEVIN, A.A.; SHCHEDRIN, B.M.; PORAY-KOSHITS, M.A.

Realization of an "algebraic" method for finding symbols by a large computer. Zhur. strukt. khim. 5 no.6:902-905 N-D '64. (MIRA 18:4)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR i Vychislitel'nyy tsentr Moskovskogo gosudarstvennogo universiteta.

AREF'YEV, V.B.; SHCHEDRIN, B.M.; LEVIN, A.A.

Experimental study of the X-criterion by means of an electronic computer. Zhur. strukt. khim. 6 no.1:137-140 Ja-F '65.
(MIRA 18:12)

1. Vychislitel'nyy Tsentr Moskovskogo gosudarstvennogo universiteta i Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR. Submitted May 23, 1963.

Aref'yev, V.I.

AUTHORS: Moshkov, A. D., and Aref'yev, V. I.

TITLE: Electrical Spring Dynamometer for Measuring Moment of Friction
(Elektropruzhinnyy dinamometr dlya izmerenii momenta treniya)

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, No. 1, pp. 102-103

ABSTRACT: The authors compare various systems of measuring the moment of friction, such as dynamometers operating with springs or weights. The weights are found to give more accurate results but to be very time-consuming. They describe a new dynamometer developed by them which uses electrical principles similar to those of the selsyn for recording the moment of friction produced by a spring. A diagram showing the principle of this dynamometer is presented. Tests showed that for moment of friction up to 90 kg/cm the accuracy of recording was $\pm 0.5\%$.

ASSOCIATION: Tashkent Institute of Railroad Transportation Engineers
(Tashkentskiy institut inzhenerov zheleznodorozhnogo transporta)

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